

Ag. Waste Application and Excavated Ponds
Ziebach County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AcD: Amor-----	55	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.07	Very limited Deep to water	1.00
Cabba-----	30	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 0.63 0.40 0.01	Very limited Deep to water	1.00
Ba: Badland-----	90	Not rated		Not rated	
Bk: Bankard-----	85	Very limited Filtering capacity Droughty Flooding Leaching limitation	1.00 0.90 0.60 0.45	Very limited Deep to water	1.00
Bn: Bankard Variant-----	85	Very limited Filtering capacity Flooding Droughty Leaching limitation	1.00 1.00 0.96 0.45	Very limited Cutbanks cave Deep to water	1.00 0.96

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Bo: Banks-----	85	Very limited Filtering capacity Flooding Leaching limitation Droughty	1.00 0.60 0.45 0.29	Very limited Deep to water	1.00
BpB: Bullock-----	60	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Parchin-----	20	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.99 0.42 0.40	Very limited Deep to water	1.00
BsC: Bullock-----	40	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	25	Not rated		Not rated	
Parchin-----	15	Very limited Restricted permeability Sodium content Slope Droughty Depth to bedrock	1.00 1.00 1.00 0.99 0.42	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
CaE: Cabba-----	50	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Lantry-----	35	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.01	Very limited Deep to water	1.00
CcF: Cabba-----	60	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Rock Outcrop, Sandstone-----	30	Not rated		Not rated	
CkF: Cohagen-----	60	Very limited Slope Depth to bedrock Droughty Low adsorption	1.00 1.00 1.00 0.53	Very limited Deep to water	1.00
Rock Outcrop, Sandstone-----	30	Not rated		Not rated	
CoE: Cohagen-----	55	Very limited Slope Depth to bedrock Droughty Low adsorption	1.00 1.00 1.00 0.53	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Vebar-----	30	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.29	Very limited Deep to water	1.00
CrD: Cohagen-----	35	Very limited Depth to bedrock Droughty Low adsorption Slope	1.00 1.00 0.53 0.37	Very limited Deep to water	1.00
Vebar-----	30	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.29	Very limited Deep to water	1.00
Bullock-----	20	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Ct: Craft-----	85	Somewhat limited Sodium content	0.08	Very limited Deep to water	1.00
DaA: Daglum-----	85	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
DrB: Daglum-----	60	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Rhoades-----	20	Very limited Restricted permeability Sodium content Droughty Runoff limitation Salinity	1.00 1.00 0.47 0.40 0.35	Very limited Deep to water	1.00
DuC: Dupree-----	90	Very limited Restricted permeability Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 1.00 0.40 0.04	Very limited Deep to water	1.00
EvB: Evridge-----	85	Very limited Restricted permeability Droughty Depth to bedrock	1.00 0.93 0.42	Very limited Deep to water	1.00
FaA: Farland-----	85	Not limited		Very limited Deep to water	1.00
FaB: Farland-----	85	Not limited		Very limited Deep to water	1.00
Fv: Fluents, Flooded---	90	Very limited Restricted permeability Ponding Depth to saturated zone Flooding Runoff limitation	1.00 1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave	0.57 0.10
Gn: Glenross-----	85	Very limited Restricted permeability Depth to saturated zone Sodium content Salinity Flooding	1.00 1.00 1.00 0.78 0.60	Very limited Slow refill Salty water Cutbanks cave	1.00 0.78 0.10

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Gr: Grail-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Hc: Haverson-----	85	Very limited Flooding	1.00	Very limited Deep to water	1.00
He: Heil-----	90	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Salinity	0.50		
Hn: Heil Variant-----	90	Runoff limitation	0.40		
		Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.43
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00	Salty water	0.01
HpC: Hisle-----	45	Runoff limitation	0.40		
		Salinity	0.35		
		Very limited Sodium content	1.00	Very limited Deep to water	1.00
		Droughty	1.00		
Pierre-----	40	Depth to bedrock	0.42		
		Runoff limitation	0.40		
		Sodium content	0.18		
		Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Droughty	1.00		
		Depth to bedrock	0.42		
		Runoff limitation	0.40		
		Sodium content	0.18		

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HsB: Hisle-----	65	Very limited Sodium content Droughty Depth to bedrock Runoff limitation Salinity	1.00 1.00 0.42 0.40 0.35	Very limited Deep to water	1.00
Slickspots, Dry-----	20	Not rated		Not rated	
Ka: Korchea-----	85	Not limited		Very limited Deep to water	1.00
Kc: Korchea-----	85	Very limited Flooding	1.00	Very limited Deep to water	1.00
KyB: Kyle-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.32	Very limited Deep to water	1.00
LcD: Lantry-----	60	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.01	Very limited Deep to water	1.00
Cabba-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
LdD: Lantry-----	40	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cabba-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Rhoades-----	20	Very limited Restricted permeability Sodium content Slope Droughty Runoff limitation	1.00 1.00 0.63 0.47 0.40	Very limited Deep to water	1.00
LeD: Lantry-----	40	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.01	Very limited Deep to water	1.00
Korchea-----	25	Very limited Flooding	1.00	Very limited Deep to water	1.00
Cabba-----	20	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Lh: Lohler-----	85	Very limited Restricted permeability Salinity	1.00 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Lk: Lohler-----	85	Very limited Restricted permeability Flooding Salinity	1.00 1.00 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ln: Lohmiller-----	85	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
Lo: Lohmiller-----	85	Very limited Flooding Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
PbB: Parchin-----	55	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.99 0.42 0.40	Very limited Deep to water	1.00
Bullock-----	25	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
PeB: Pierre-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.18	Very limited Deep to water	1.00
PeC: Pierre-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 1.00 0.42 0.40 0.18	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
PmD: Pierre-----	60	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00 1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
Samsil-----	25	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Po: Orthents, Gravelly--	100	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
PrA: Promise-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
RaA: Ree-----	90	Not limited		Very limited Deep to water	1.00
RaB: Ree-----	85	Not limited		Very limited Deep to water	1.00
RbB: Reeder-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
RbC: Reeder-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RcB: Reeder-----	50	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
Daglum-----	35	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
RdC: Reeder-----	60	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
Lantry-----	25	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
ReC: Reeder-----	35	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
Rhoades-----	25	Very limited Restricted permeability Sodium content Droughty Runoff limitation Salinity	1.00 1.00 0.47 0.40 0.35	Very limited Deep to water	1.00
Lantry-----	20	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
RgB: Regent-----	85	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.08 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RgC: Regent-----	85	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.08 0.01	Very limited Deep to water	1.00
RhD: Regent-----	65	Very limited Restricted permeability Slope Depth to bedrock Droughty Salinity	1.00 0.63 0.42 0.08 0.01	Very limited Deep to water	1.00
Cabba-----	20	Very limited Depth to bedrock Droughty Runoff limitation Slope Low adsorption	1.00 1.00 0.40 0.37 0.01	Very limited Deep to water	1.00
RmB: Regent-----	55	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.08 0.01	Very limited Deep to water	1.00
Daglun-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
RnB: Regent-----	55	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.08 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Rhoades-----	25	Very limited Restricted permeability Sodium content Droughty Runoff limitation Salinity	1.00 1.00 0.47 0.40 0.35	Very limited Deep to water	1.00
RoA: Reliance-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
RoB: Reliance-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
RrA: Rhoades-----	60	Very limited Restricted permeability Sodium content Droughty Runoff limitation Salinity	1.00 1.00 0.47 0.40 0.35	Very limited Deep to water	1.00
Daglum-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
RrB: Rhoades-----	60	Very limited Restricted permeability Sodium content Droughty Runoff limitation Salinity	1.00 1.00 0.47 0.40 0.35	Very limited Deep to water	1.00
Daglum-----	20	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RsB: Rhoades-----	55	Very limited Restricted permeability Sodium content Droughty Runoff limitation Salinity	1.00 1.00 0.47 0.40 0.35	Very limited Deep to water	1.00
Slickspots, Dry-----	30	Not rated		Not rated	
RvA: Ridgeview-----	85	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
RvB: Ridgeview-----	85	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
Rw: Riverwash-----	100	Not rated		Not rated	
SaE: Samsil-----	85	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ScF: Samsil-----	55	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated	
SgA: Savage-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
SgB: Savage-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
ShE: Schamber-----	50	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Samsil-----	40	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
SkB: Seroco-----	70	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.57 0.45	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tally-----	20	Not limited		Very limited Deep to water	1.00
So: Shambo-----	85	Not limited		Very limited Deep to water	1.00
Sp: Slickspots, Dry-----	90	Not rated		Not rated	
StA: Stady-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
SwB: Swanboy-----	85	Very limited Restricted permeability Runoff limitation Salinity Droughty	1.00 0.40 0.35 0.05	Very limited Deep to water	1.00
SxC: Swanboy-----	50	Very limited Restricted permeability Runoff limitation Salinity Droughty Slope	1.00 0.40 0.35 0.05 0.04	Very limited Deep to water	1.00
Kyle-----	35	Very limited Restricted permeability Slope Runoff limitation Sodium content	1.00 0.63 0.40 0.32	Very limited Deep to water	1.00
SyB: Swanboy-----	55	Very limited Restricted permeability Runoff limitation Salinity Droughty	1.00 0.40 0.35 0.05	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Slickspots, Dry-----	30	Not rated		Not rated	
TaA: Tally-----	85	Not limited		Very limited Deep to water	1.00
TaB: Tally-----	85	Not limited		Very limited Deep to water	1.00
Tm: Trembles-----	85	Not limited		Very limited Deep to water	1.00
Tr: Trembles-----	85	Very limited Flooding	1.00	Very limited Deep to water	1.00
VbB: Vebar-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.29	Very limited Deep to water	1.00
VbC: Vebar-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.29	Very limited Deep to water	1.00
VcC: Vebar-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.29	Very limited Deep to water	1.00
Cohagen-----	30	Very limited Depth to bedrock Droughty Low adsorption Slope	1.00 1.00 0.53 0.37	Very limited Deep to water	1.00
VdC: Vebar-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.29	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Daglum-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	
w40: Water (greater Than 40 Acres)-----	100	Not rated		Not rated	
WcE: Wabek-----	55	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Cabba-----	35	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
WdE: Wayden-----	85	Very limited Slope Restricted permeability Depth to bedrock Droughty Low adsorption	1.00 1.00 1.00 1.00 0.54	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
We: Wendte-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Wn: Wendte-----	85	Very limited Restricted permeability Flooding Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10

